



Sumner Tunnel Centennial Project

*Advisory Commission on Travel &
Tourism- Briefing*

June 8, 2021 | 1:00 PM

Project File No. 606476



Briefing Agenda

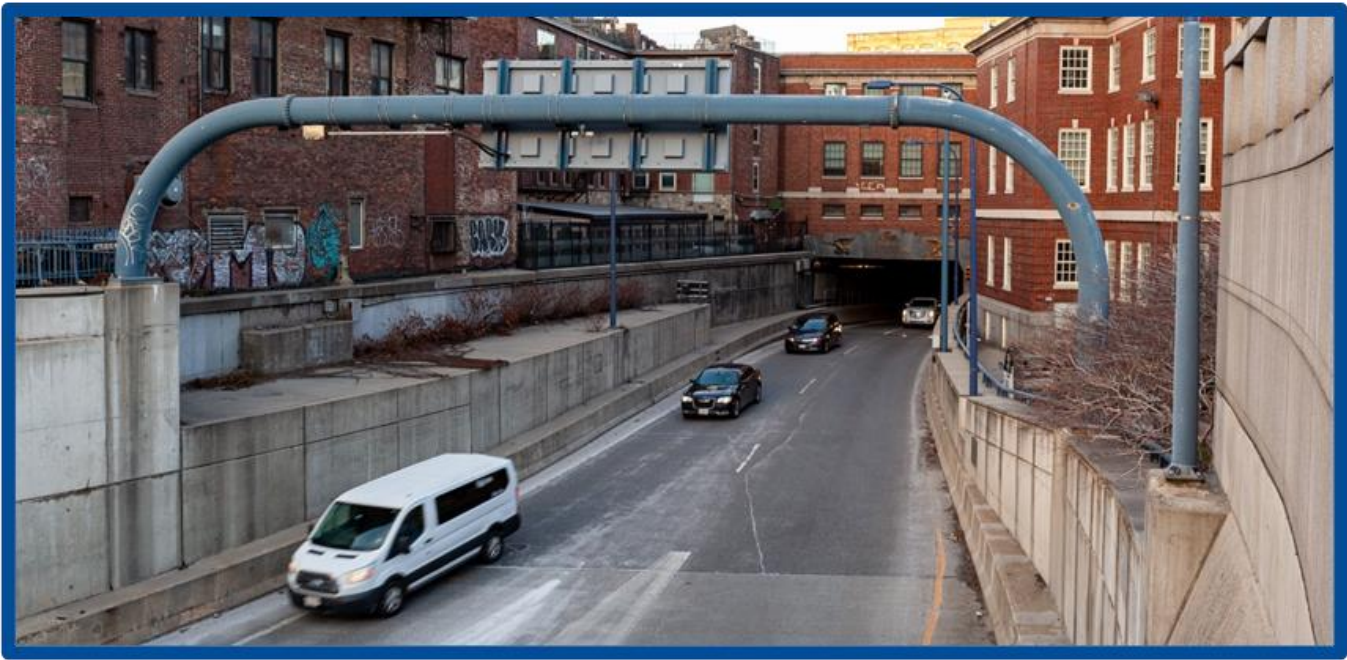
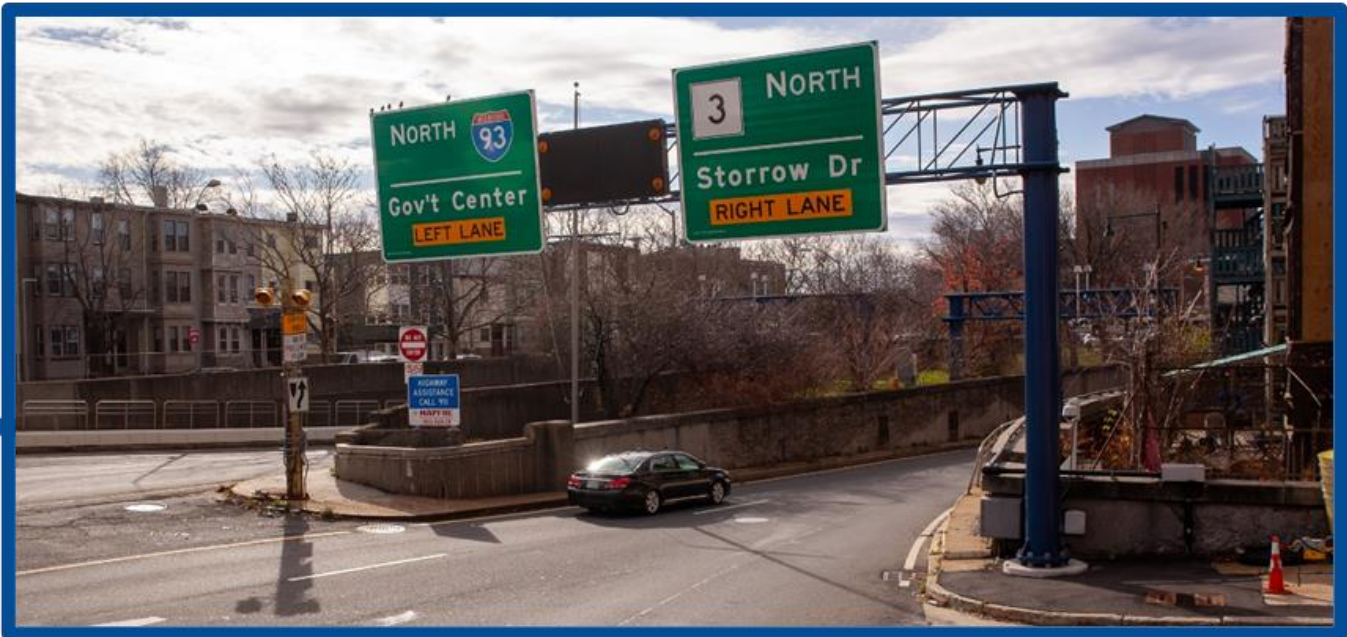
1. Welcome & Overview
2. Project Background
3. Temporary Construction Impacts
4. Public Involvement and Opportunities for Input
5. Q & A





**Why was
this project
initiated?**

Tunnel Entrance and Exit



Deteriorating Arch and Walls



Spalled concrete, rusted reinforcement, and damaged wall supports

Deteriorating Ceiling



Spalled concrete, corroded rebar, and rusted support beams









**What do we
want to
accomplish?**

Project Purpose and Benefits

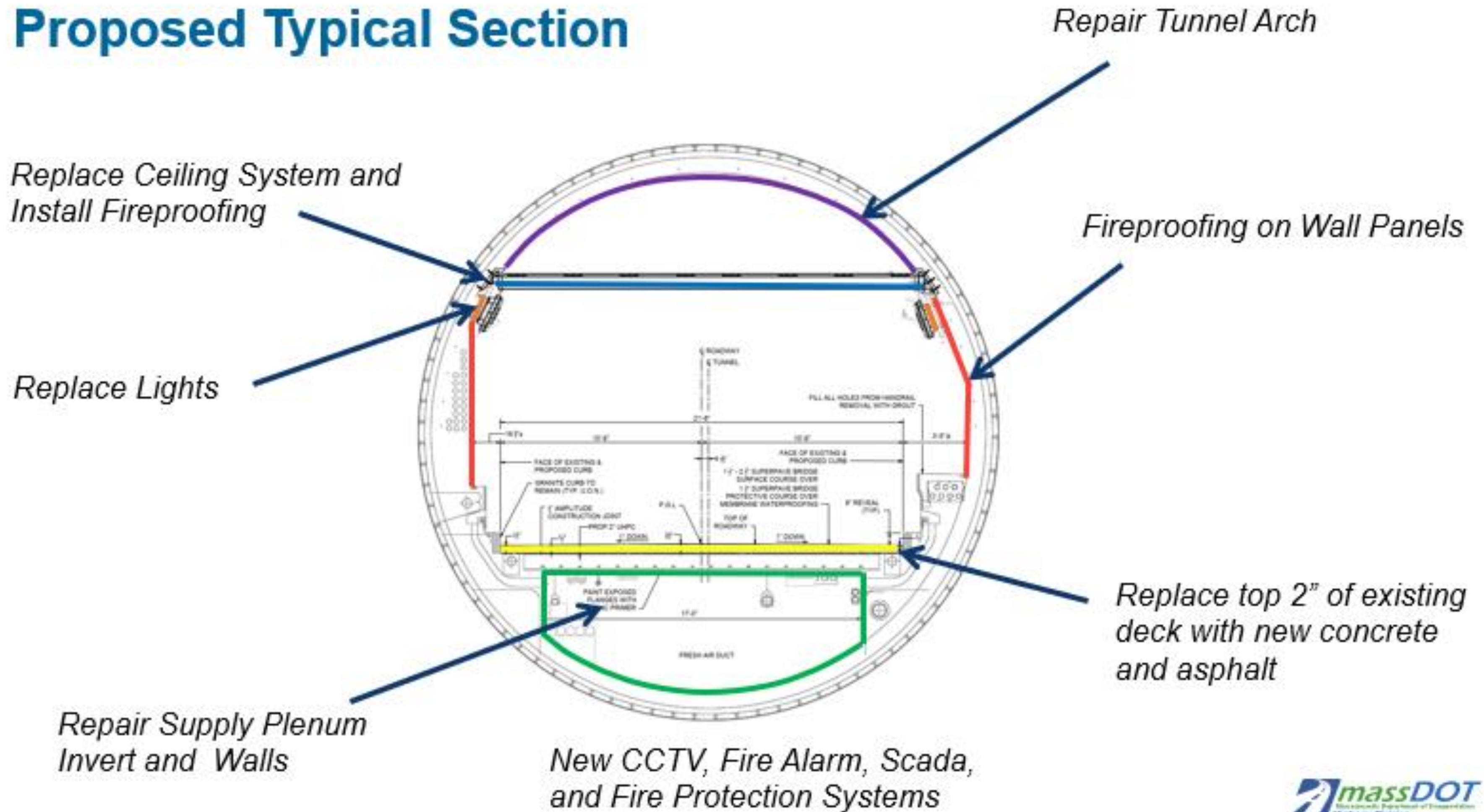
- Purpose:
 - Address the structural and functional system deficiencies of the Sumner Tunnel using accelerated construction strategies to minimize the overall duration of impacts to the travelling public and surrounding communities.
- Benefits:
 - Improve tunnel safety
 - Reduce emergency and scheduled tunnel closures for maintenance
 - Smoother and more durable roadway surface
 - Updated technology - Improve cell phone, GPS, and radio service inside tunnel
 - Add new lighting and security systems



Key Project Activities

-  • Remove and replace the tunnel ceiling and repair overhead arch
-  • Reconstruct tunnel deck and replace roadway surface
-  • Repair tunnel walls and install painted fireproof panels
-  • Install new LED lights inside tunnel
-  • Upgrade CCTV and fire alarm systems
-  • Install new utility conduits and cables

Proposed Typical Section





**What is the
construction
approach?**

Design Build Project Delivery

- Design-Build Best Value procurement
 - Short-List Best Qualified Teams
 - Shorten project duration
 - Promote innovation by teaming the engineer and the general contractor
- MassDOT's contract with the Design Builder will stipulate requirements for traffic management while also providing the DB flexibility to develop their own approach to staging.
- Incentives / Disincentives
 - Ensures compliance with contract timelines

Advantages of Weekend and Full Tunnel Closures

- Minimizes safety risks to tunnel workers and motorists
- Accelerates project completion
- Minimizes duration of disruption to local communities, businesses and road users
- Provides consistent detours and diversions for the traveling public
- Minimizes temperature and weather delays
- Allows for high quality of work



Winter Ice



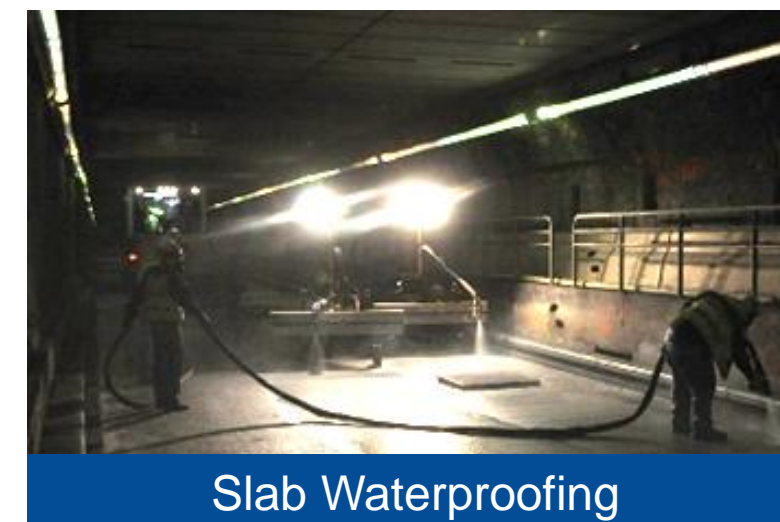
Robot Hydro Demo Wall



Slab Hydro Demolition



Shotcrete Repairs



Slab Waterproofing

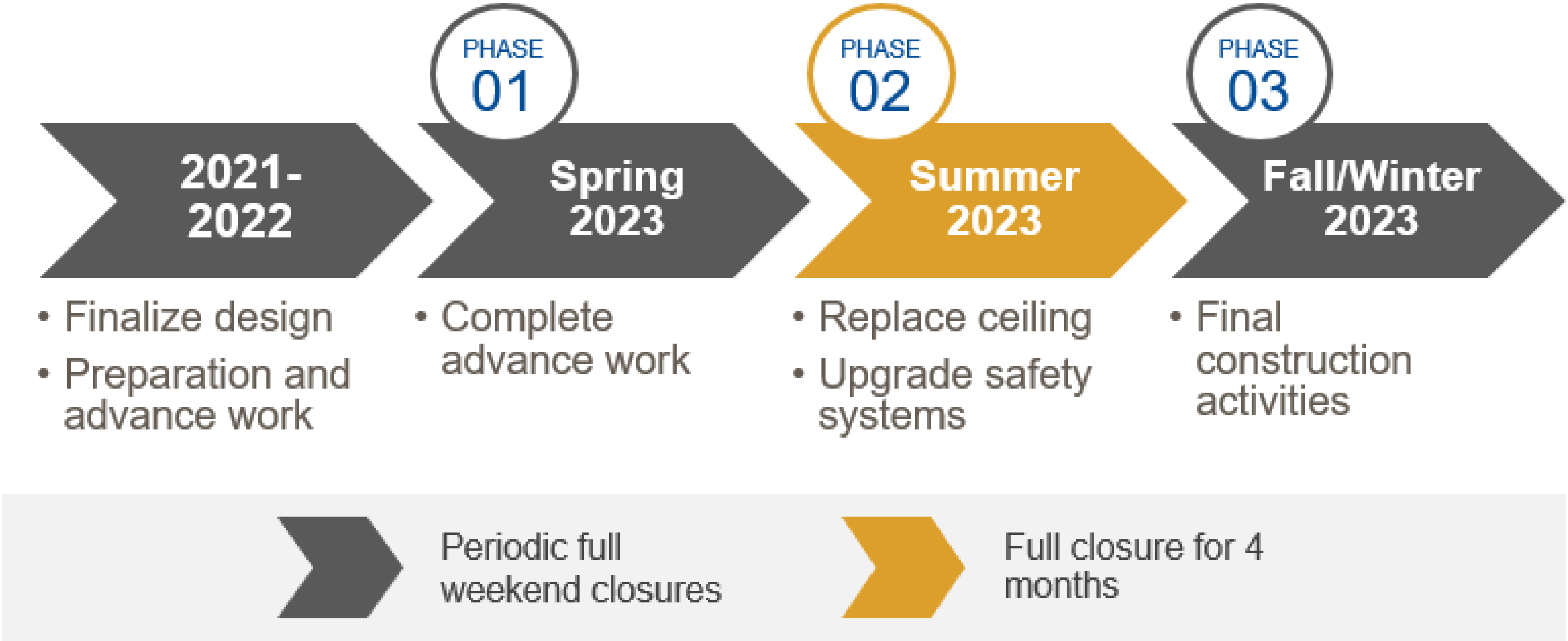


Final Product



How will road users be affected?

Construction Phases



Anticipated Traffic Impacts

- Local and regional vehicle detours during tunnel closures
- Coordinate with MBTA to ensure public transit options



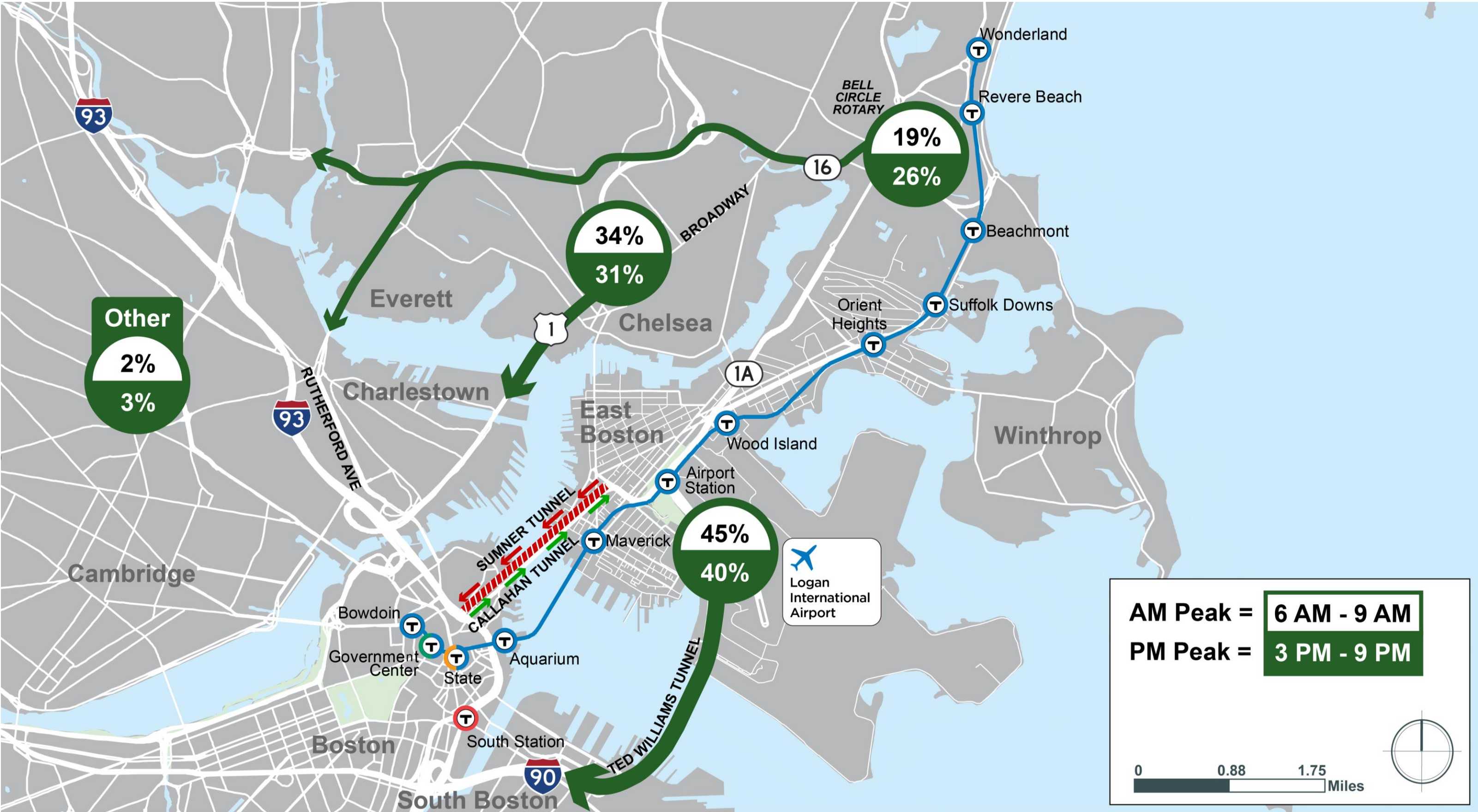
Coordinating Regional Projects

Sumner Tunnel project planning was put on hold in 2016 to minimize impacts on the traveling public during:

- MBTA Blue Line upgrades between Airport and Aquarium stations
- Tobin Bridge/Chelsea Curves rehabilitation
- North Washington Street Bridge
- Tobin Bus Lane
- Silver Line Improvements



Estimated Distribution of Trip Diversions During AM and PM Peaks in Summer 2023



Traffic Control to Support Proposed Detours

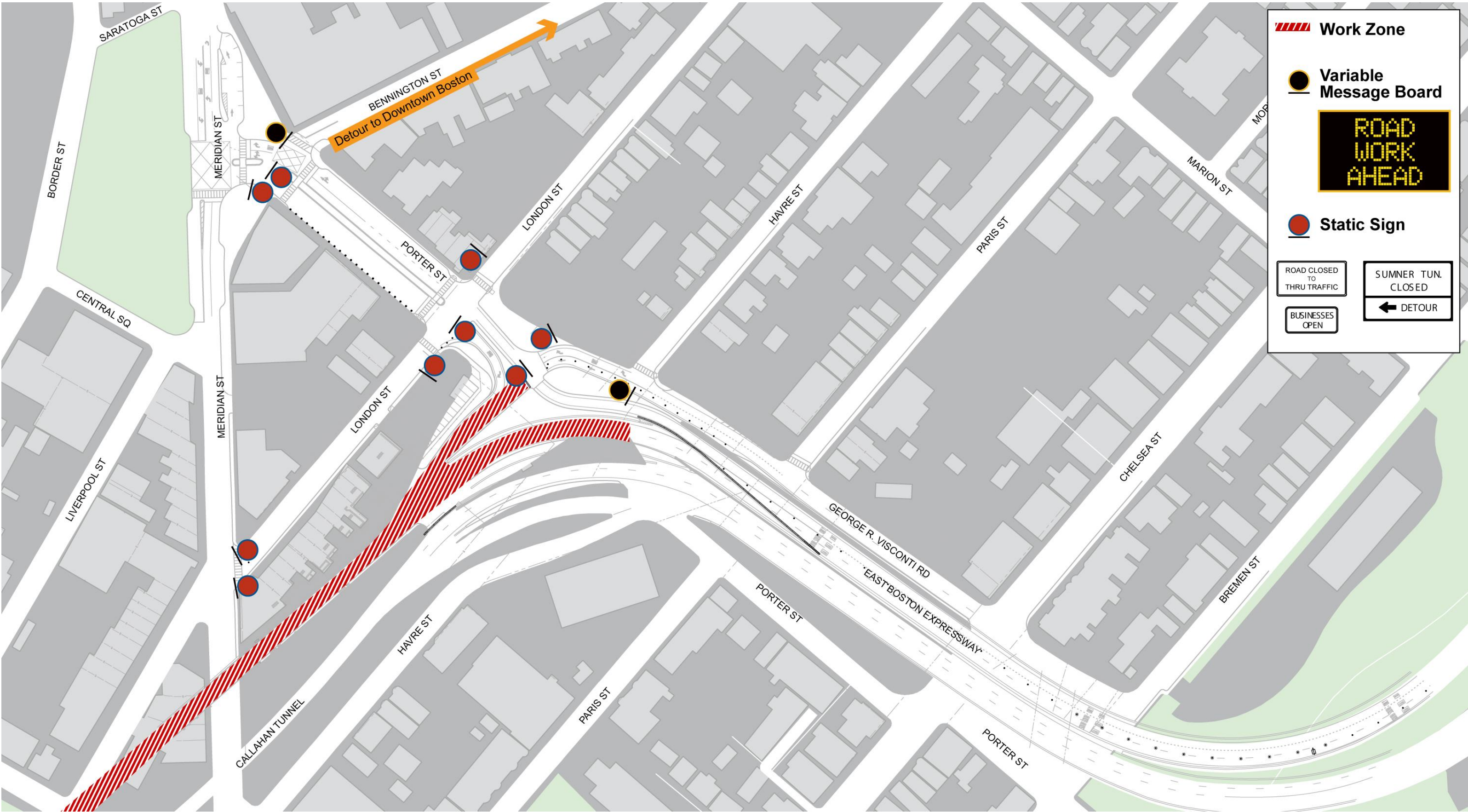
Design package will include requirements for:

- Real-Time Traffic Management
- Time-to-destination data and messaging
- Real-time video monitoring
- Staff evaluation and monitoring in the field
- Traffic signal technologies for remote intersection adjustments
- Portable Changeable Message Signs (PCMS)
- Static signage locally and regionally

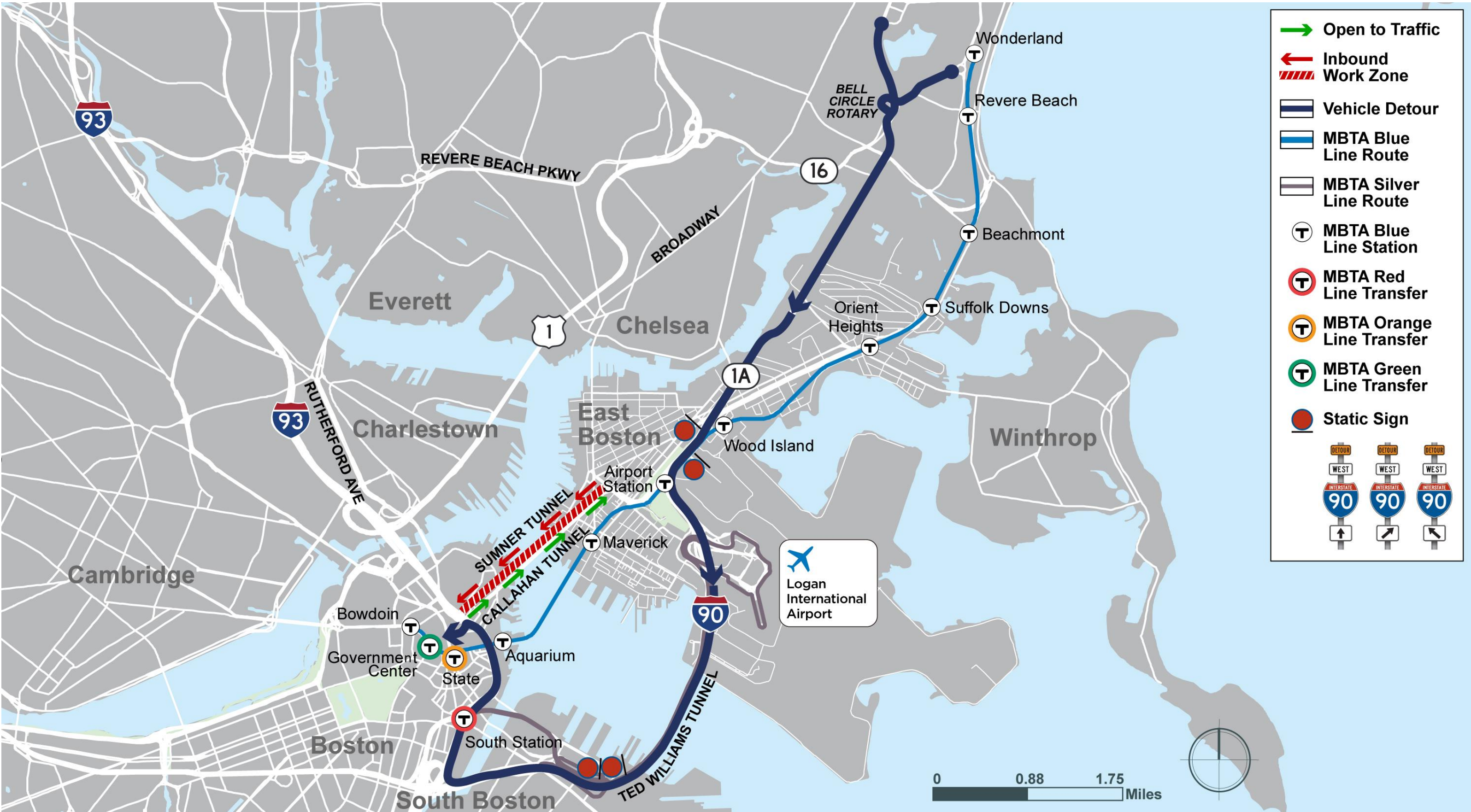
East Boston to Downtown - Proposed Detour



East Boston to Downtown - Proposed Detour (Local Streets Detail)



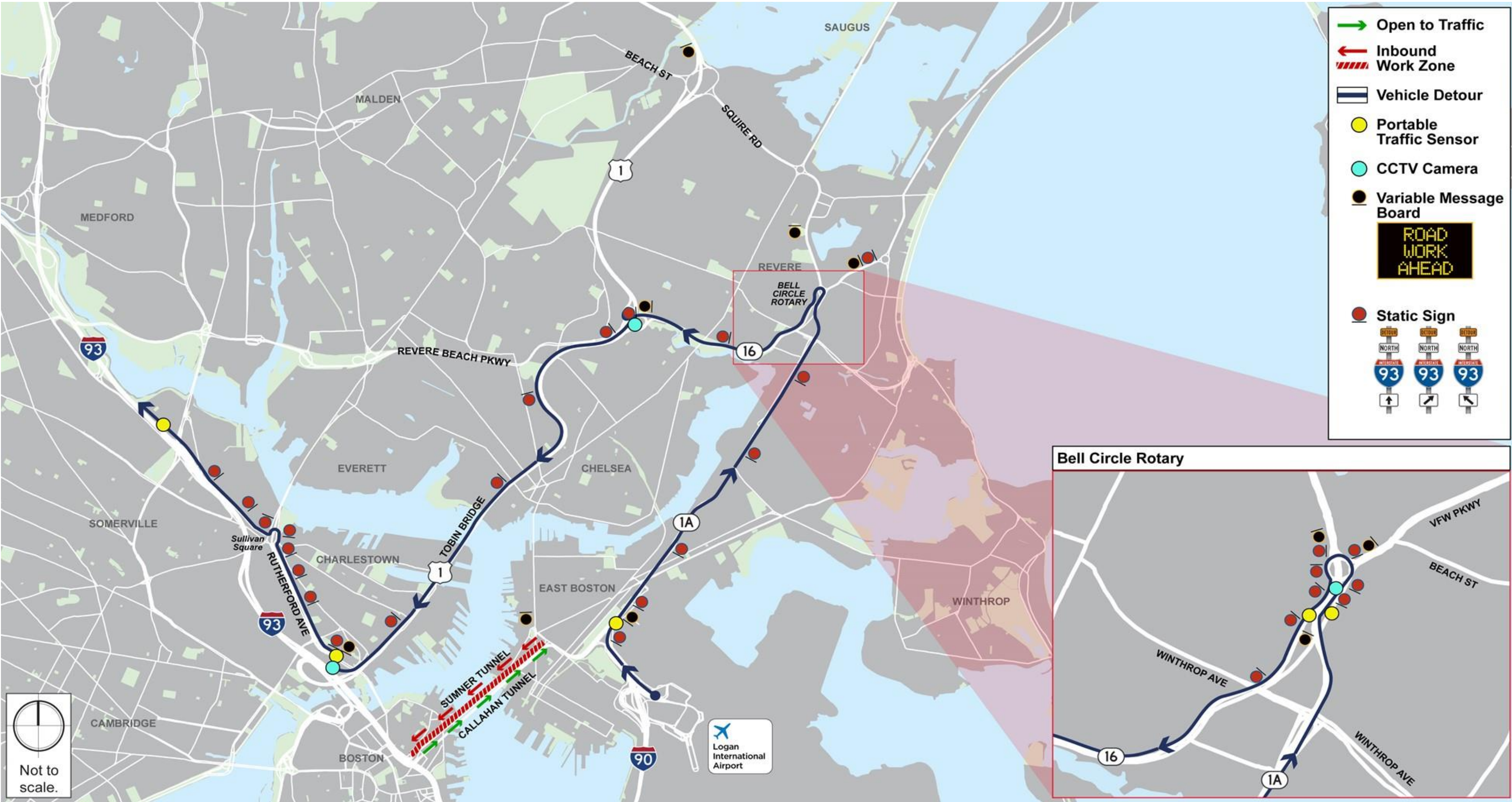
Revere to Downtown - Proposed Detour



Logan Airport to Downtown - Proposed Detour



Logan Airport to I-93 North - Proposed Detour and RTTM





Known Community Concerns

Known Community Concerns

Prior to starting work, the design-build team MUST submit:

- Dust Control Plan- measures used to control airborne dust emissions within the work zone and along the public roadways outside the work zone.
- Noise Control Plan- assess noise impacts from equipment and activities at sensitive areas in the North End & East Boston based on baseline conditions established prior to construction.
- Vibration Plan- develop specifications and monitor throughout construction
- Implement a Rodent Control Program throughout the project work zone area

***An email address has been created to allow the public to submit questions, comment and concerns. Please reach out to us at Sumner100@dot.state.ma.us

Known Community Concerns

Public Safety-

- Briefings with Boston Fire, Police and EMS
- Briefings with Emergency Responders of Surrounding Communities

Traffic Diversions and Delays-

- Work to keep regional traffic off local streets
 - Coordinate with Boston Transportation Department
 - Coordinate with GPS Mapping Services
 - Interface with affected Agency Roadways: MassPort & DCR
 - Implement Real Time Traffic Management System

***We will work across agencies and with communities to provide a balanced approach to managing traffic, with continued opportunities for public input at ongoing public meetings



**How will
we keep you
informed?**

Sumner Tunnel Public Involvement

As the schedule dictates the construction approach and closures,

WE WANT YOUR INPUT ON:

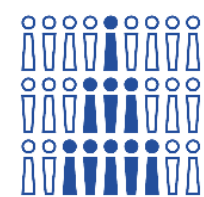
- Construction activities during overnight hours
- Detour routes
- Options for directional signage
- Public outreach ahead of construction



Key Stakeholders



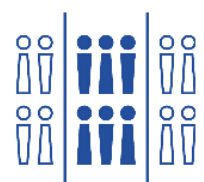
Abutting Residents and Property Owners



Area Residents



Business and Economic Development Groups



Community Groups and Organizations



Commuters



Boston Logan Airport Travelers



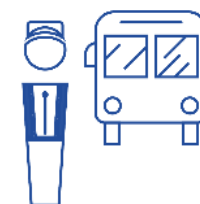
Elected Officials



Massport and other Municipal and Government Agencies



Public Safety and Emergency Response Services



Transportation Groups and Operators



Trip Directions and Mapping Providers



Are we missing anyone?

Spring 2021 Public Outreach

Host Meetings	Direct Outreach	Provide Information
<ul style="list-style-type: none">• Virtual legislative briefings• Virtual stakeholder and community group briefings• Virtual public meetings/hearings• Virtual Open Houses	<ul style="list-style-type: none">• Mailings to abutters• Informational posters• Emails to EZ-Pass holders• Outreach to Logan Express, Regional Bus Companies, and Rental Car Agencies• Outreach to community groups• Outreach to large businesses• Neighborhood pop-ups	<ul style="list-style-type: none">• Updates and project information to partners and stakeholders• Dedicated project website• Emails will provide regular project and traffic updates• MassDOT social media posts• Press briefings• Press releases• Radio

Next Steps

May 2021

- Design Public Hearing
- Community pop ups
- Provide more details and gather input on construction plan and detours

June 2021

- Community pop ups
- Design public information meetings
- Virtual open house
- Briefings to community groups available upon request

Raise awareness and gather public input

Anticipated Construction Period Outreach

Host Meetings	Direct Outreach	Provide Information
<ul style="list-style-type: none">• Legislative briefings• Town official briefings• Stakeholder and community group briefings• Public meetings• Open houses• <i>Provide physical and virtual options</i>	<ul style="list-style-type: none">• Mailings to abutters• Informational posters• Emails to EZ-Pass holders• Outreach to Logan Express, Regional Bus Companies, and Rental Car Agencies• Outreach to community groups• Outreach to large businesses• Outreach to sports and cultural venues• Neighborhood pop-ups	<ul style="list-style-type: none">• Updates and project information to partners and stakeholders• Revise project website to delivery construction information• Emails will provide regular project and traffic updates• MassDOT social media posts• Press briefings• Press releases• Radio• Public access cable• VMS and static signage

Stay Involved



Visit the project website to stay informed and sign up for the project updates:

- www.mass.gov/sumner100



Email the project team with feedback and questions:

- Sumner100@dot.state.ma.us



Thank You

Sumner Tunnel Centennial Project

Visit the project website:

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